



U.S. Army Corps  
of Engineers  
Baltimore District

PN 18-37

# Public Notice

In Reply to Application Number  
CENAB-OPR-P-2018-60541-P13 (Queen Anne's County  
Department of Parks/Kent Narrows Federal Navigation  
Channel – Maintenance Dredging)

Comment Period: June 25, 2018 to July 25, 2018

---

**THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC REGARDING THE WORK DESCRIBED BELOW. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.**

This District has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 and/or Section 404 of the Clean Water Act (33. U.S.C. 1344) as described below:

APPLICANT: Queen Anne's County Department of Parks  
1945 4-H Park Road  
Centreville, Maryland 21617

LOCATION: Kent Island Narrows, located off of Swan Cove Lane, in Grasonville, Queen Anne's County, Maryland.

WORK: To maintenance dredge by either hydraulic or mechanical method, approximately 3,325 linear feet (345,475 sq.ft.) of federal navigation channel, 75 to 110 feet in width, to a maximum depth of -9.0 feet deep mean low water (MLW). This depth includes the base - 7.0 feet deep MLW, plus -2.0 feet of allowable over dredge. The Kent Narrows Federal Channel was most recently dredged to a maximum of -9.0 feet MLW in 2007. This current proposal is within the same footprint of the previous 2007 dredging.

The approximate 31,783 cubic yards of dredged material will be placed along the northwest shoreline of the U.S. Fish & Wildlife's Eastern Neck National Wildlife Refuge for beach nourishment purposes. The available shoreline area is located behind existing stone breakwaters, with dredged material previously placed in this area in 2007 from the previous dredging of the Kent Narrows Federal Channel. This shoreline placement area still has adequate containment measures to retain material during placement and the U.S. Fish & Wildlife Service has approved of location.

If you have any questions concerning this matter, please contact Mrs. Amy Elliott of this office at (814) 235-0573 or via email at amy.h.elliott@usace.army.mil.

The purpose of the project is to improve navigable access.

As part of the planning process for the proposed project, steps were taken to ensure avoidance and minimization of impacts to waters of the United States to the maximum extent practicable. Compensatory mitigation is not being proposed by the applicant for impacts to open water (deep water) habitat, and no wetland impacts are proposed.



The Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA), as amended by the Sustainable Fisheries Act of 1996 (Public Law 04-267), requires all federal agencies to consult with the National Marine Fisheries Service (NMFS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely affect Essential Fish Habitat (EFH). The project site lies in or adjacent to EFH as described under the MSFCMA for Juvenile and adult Red hake (*Urophycis chuss*) and Windowpane flounder (*Scophthalmus aquosus*); Adult Atlantic sea herring (*Clupea harengus*); Juvenile and adult Bluefish (*Pomatomus saltatrix*); Eggs, larvae, juvenile and adult Atlantic butterfish (*Peprilus triacanthus*); Larvae, juvenile and adult Summer flounder (*Paralichthys dentatus*); Juvenile and adult Scup (*Stenotomus chrysops*) and Red Drum (*Sciaenops ocellatus*); Eggs, larvae, juveniles and adult King mackerel (*Scomberomorus cavalla*), Spanish mackerel (*Scomberomorus maculatus*), Cobia (*Rachycentron canadum*), Black sea bass (*Centropristus striata*) and all managed species under the MSFCMA.

The project has the potential to adversely affect EFH or the species of concern by the alteration of spawning, nursery, forage and/or shelter habitat. The project may have an adverse effect on an approximate total of 7.93 acre area of EFH as described under the MSFCMA for the species and life stages identified above. This habitat consists of a mostly sand and silt substrate which does not support SAV. According to the Virginia Institute of Marine Science survey maps, there was no SAV within the area. The Baltimore District has made a preliminary determination that site-specific impacts would not be substantial and an abbreviated consultation will be conducted with NMFS. No mitigative measures are recommended at this time to minimize adverse effects on EFH. This preliminary determination may be modified if additional information indicates otherwise and could change the Corps' preliminary determination.

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonable may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economic, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, and consideration of property ownership and in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above.



Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments provided will become part of the public record for this action. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. Written comments concerning the work described above related to the factors listed above or other pertinent factors must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, State College Field Office, 1631 South Atherton Street, Suite 101, State College, Pennsylvania, 16801 within the comment period specified above.

Pursuant to Section 14 of the Rivers and Harbors Act of 1899, 33 U.S.C. 408 (Section 408), any work on the Kent Narrow Federal Navigation Channel requires approval from the Corps of Engineers. The Section 408 request was received by the Corps on March 28, 2018 and Section 408 approval was granted on May 1, 2018.

The applicant is required to obtain a water quality certification in accordance with Section 401 of the Clean Water Act from the Maryland Department of Environment. The Section 401 certifying agency has a statutory limit of one year from the date of this public notice to make its decision.

Where applicable, the applicant has certified in this application that the proposed activity complies with and will be conducted in a manner consistent with the approved Coastal Zone Management Program. By this public notice, we are requesting the state concurrence or objection to the applicant's consistency statement. It should be noted that the Coastal Zone Management Program has a statutory limit of 6 months to make its consistency determination.

The applicant must obtain any state or local government permits which may be required.

A preliminary review of this application indicates that the proposed work will have no effect on federal listed threatened or endangered species or their critical habitat, pursuant to Section 7 of the Endangered Species Act, as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

Review of the latest published version of the National Register of Historic Places indicates that no registered properties listed as eligible for inclusion, therein, are located at the site of the proposed work. Currently unknown archeological, scientific, prehistoric, or historical data may be lost or destroyed by the work to be accomplished under the request permit.

Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, State College Field Office, 1631 South Atherton Street, Suite 101, State College, Pennsylvania, 16801 within the comment period as specified above to receive consideration. Also it must clearly set forth the interest which may be adversely affected by this activity and the manner in which the interest may be adversely affected.

It is requested that you communicate this information concerning the proposed work to any persons known by you to be interested and not being known to this office, who did not receive a copy of this notice.

FOR THE DISTRICT ENGINEER:

A handwritten signature in blue ink, appearing to read "Wade B. Chandler".

Wade B. Chandler  
Chief, Pennsylvania Section  
Regulatory Branch

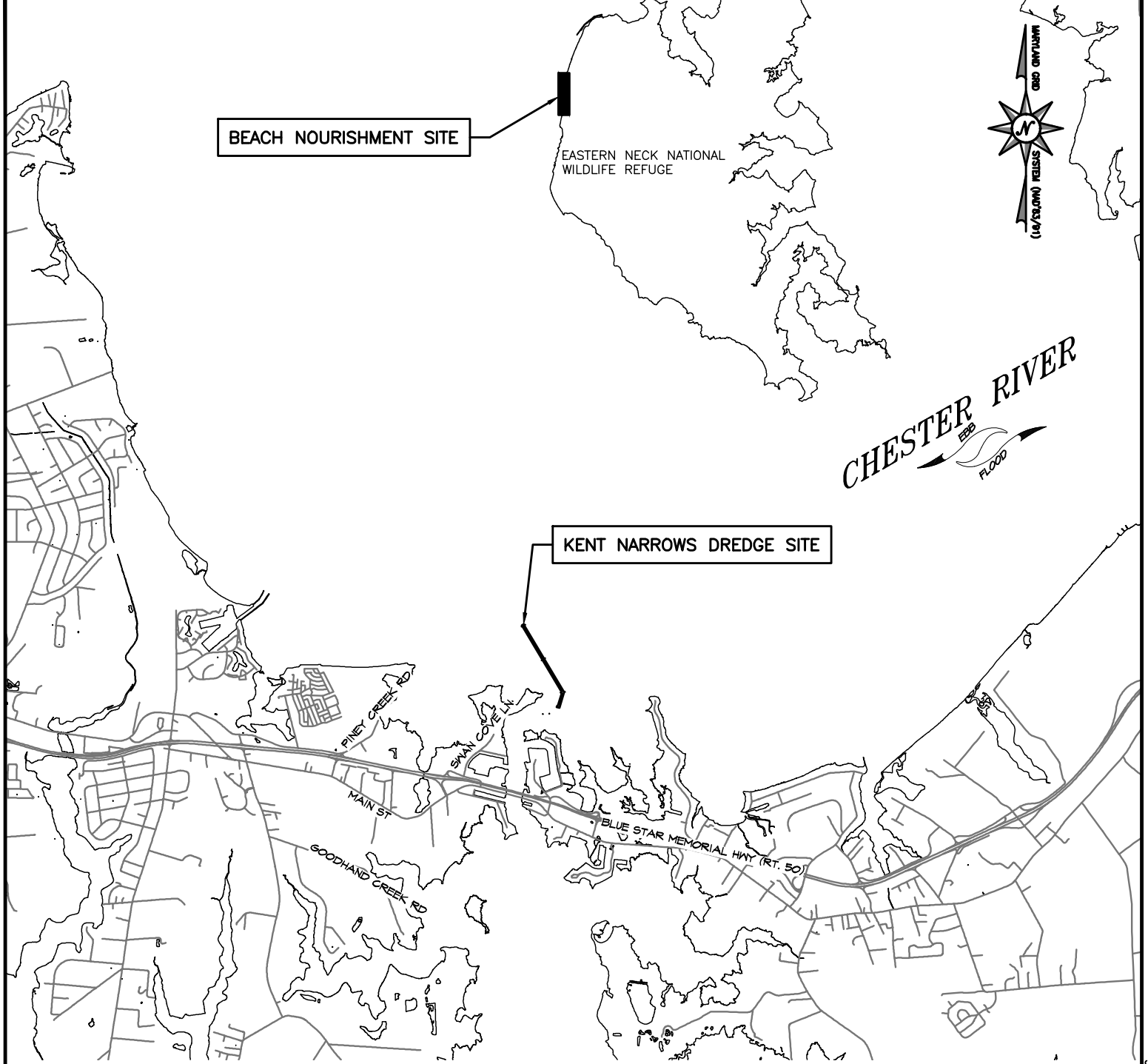
BEACH NOURISHMENT SITE

EASTERN NECK NATIONAL  
WILDLIFE REFUGE



CHESTER RIVER  
EBB  
FLOOD

KENT NARROWS DREDGE SITE

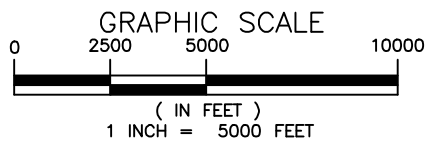


**KENT NARROWS, CHESTER RIVER  
PROPOSED MAINTENANCE DREDGING  
QUEEN ANNE'S COUNTY**

APPL. BY: QUEEN ANNE'S COUNTY  
DEPARTMENT OF PARKS

VICINITY MAP

DATE: March 2018 SHEET 1 OF 10



NOTE:  
BASEMAP TAKEN FROM QUEEN ANNE'S  
COUNTY GIS

**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

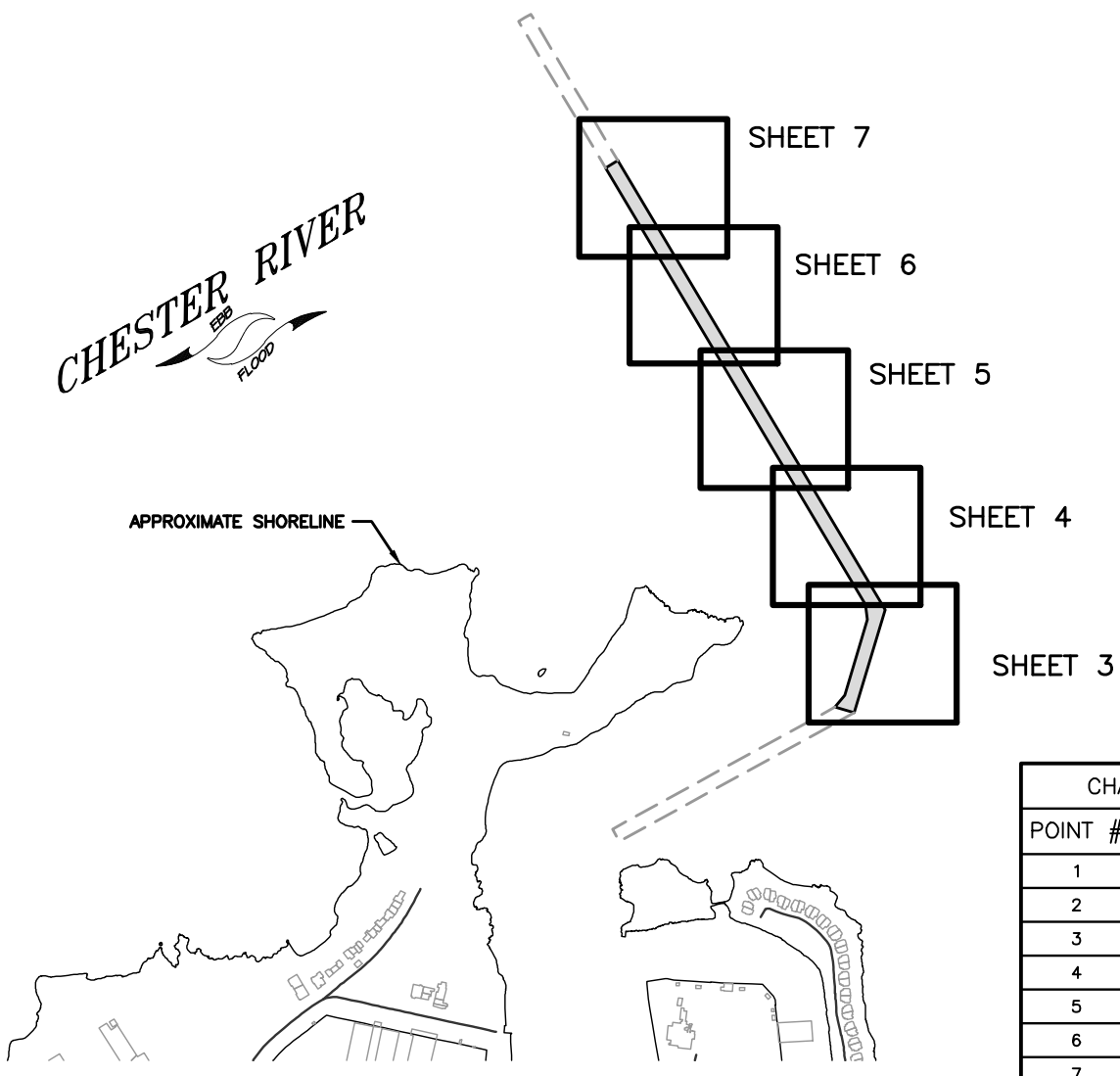
Z:\B\_27701\_KENT\_NARROWS\_DREDGING\CAD FILES\SHEET FILES\B\_27701\_JPA01.DWG





**CHESTER RIVER**  
*EDD*  
 FLOOD

APPROXIMATE SHORELINE



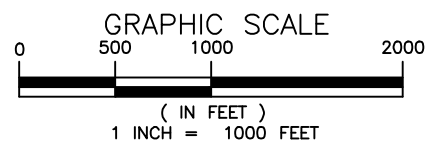
CHANNEL STAKEOUT		
POINT #	NORTHING	EASTING
1	478214.63	1526635.80
2	478181.76	1526653.84
3	478148.88	1526671.88
4	478864.02	1527819.36
5	478860.00	1527890.00
6	478834.52	1527921.51
7	478928.24	1527871.30
8	479330.57	1527991.85
9	479377.28	1528044.99
10	479382.29	1528085.64
11	479409.67	1527982.09
12	482512.22	1526136.47
13	482531.39	1526168.70
14	482550.56	1526200.93

**KENT NARROWS, CHESTER RIVER  
 PROPOSED MAINTENANCE DREDGING  
 QUEEN ANNE'S COUNTY**

APPL. BY: QUEEN ANNE'S COUNTY  
 DEPARTMENT OF PARKS

**KEY SHEET**

DATE: March 2018 SHEET 2 OF 10



NOTE:  
 BASEMAP TAKEN FROM QUEEN ANNE'S  
 COUNTY GIS

**Bay Land**  
 Consultants & Designers, Inc.  
*"Integrating Engineering and Environment"*  
 7455 New Ridge Road, Suite T Phone: (410) 694-9401  
 Hanover, Maryland 21076 Fax: (410) 694-9405  
 www.baylandinc.com

Z:\B\_27701\_KENT\_NARROWS\_DREDGING\CAD FILES\SHEET FILES\B\_27701\_JPA02.DWG

-4.3 -4.5 -4.9 -5.8 -6.7 -7.0 -6.6 -5.9 -5.1 -4.5  
 -4.3 -4.4 -4.6 -5.2 -6.3 -6.8 -6.8 -6.4 -5.4 -4.6  
 -4.5 -4.5 -5.1 -5.9 -6.9 -7.0 -6.7 -5.7 -4.9 -4.2  
 -4.3 -4.5 -4.9 -5.7 -6.8 -7.0 -6.9 -6.1 -5.2 -4.7  
 -4.9 -5.7 -6.7 -7.2 -7.0 -6.5 -5.7 -5.7  
 -4.7 -5.6 -6.6 -7.2 -7.0 -6.6 -5.8 -5.7 -5.0  
 -4.6 -5.3 -6.3 -7.1 -7.0 -6.7 -6.0 -5.3 -4.7  
 -4.9 -5.3 -6.2 -7.0 -7.0 -6.7 -5.8 -5.1 -4.4  
 -5.0 -5.4 -6.4 -7.2 -7.0 -6.7 -5.6 -5.1 -4.3  
 -5.0 -5.6 -6.6 -7.0 -6.9 -6.4 -5.5 -5.1 -4.3  
 -4.6 -5.1 -5.7 -6.7 -6.9 -6.8 -6.2 -5.5 -4.8  
 -4.6 -5.2 -5.8 -6.7 -6.9 -6.7 -6.1 -5.4 -4.9  
 -4.5 -5.1 -5.8 -6.7 -6.9 -6.5 -6.0 -5.4  
 -4.4 -4.9 -5.7 -6.6 -6.9 -6.5 -6.0 -5.5  
 -4.2 -4.7 -5.5 -6.4 -6.7 -6.6 -6.0 -5.5  
 -4.0 -4.6 -5.4 -6.2 -6.8 -6.4 -5.9  
 -3.7 -4.5 -5.3 -6.3 -6.8 -6.3 -5.8  
 -3.3 -3.5 -4.3 -5.4 -6.4 -7.0 -6.3 -5.7  
 -3.8 -3.7 -3.4 -4.4 -5.5 -6.5 -6.5 -6.3 -6.0  
 -4.2 -3.9 -4.1 -4.8 -5.6 -6.3 -6.5 -6.4  
 -4.3 -4.2 -4.3 -5.1 -6.2 -6.9 -6.8 -8.1  
 -4.4 -4.4 -4.5 -5.0 -6.0 -7.6 -8.3 -8.7 -9.1  
 -4.6 -4.9 -5.6 -6.8 -8.7 -9.5 -9.4 -9.9  
 -5.5 -6.7 -8.1 -9.6 -10.2 -10.5 -11.2  
 -4.8 -5.9 -7.5 -9.3 -10.6 -11.5 -11.8 -12.1 -12.5 -13.6  
 -7.1 -8.7 -10.6 -11.8 -13.1 -13.3 -13.5 -14.1 -14.3 -14.5  
 6.4 -7.0 -8.9 -10.4 -11.8 -12.7 -13.4 -13.9 -14.4 -14.6 -15.0 -14.9  
 8.0 -10.3 -11.7 -13.0 -13.5 -13.6 -14.1 -14.5 -14.3 -14.6 -15.2 -15.8  
 11.7 -12.5 -13.4 -13.5 -13.8 -14.3 -14.6 -14.4 -14.8 -14.8 -15.0

MATCHLINE REFER TO SHEET 4



EX. RED CHANNEL MARKER (TYP)

EX. GREEN CHANNEL MARKER

**MAIN CHANNEL SEGMENT 'A'**  
 3,325' X 75-110' TO -9.0' MLW.  
 CHANNEL OUTLINE REPRESENTS  
 BOTTOM WIDTH. FOR TOTAL IMPACT  
 SEE TYPICAL CROSS SECTION &  
 CHANNEL DATA TABLE.



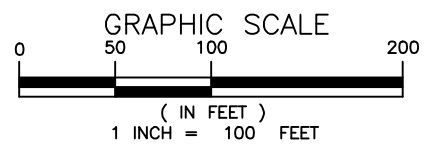
LEGEND	
	PREVIOUSLY DREDGED CHANNEL
	PROPOSED FEDERAL CHANNEL
-7.6	DEPTHS
	PROPOSED CHANNEL DEPTH
	GREEN CHANNEL MARKER
	RED CHANNEL MARKER
	PROPOSED SEDIMENT SAMPLE LOCATION

**KENT NARROWS, CHESTER RIVER**  
**PROPOSED MAINTENANCE DREDGING**  
**QUEEN ANNE'S COUNTY**

APPL. BY: QUEEN ANNE'S COUNTY  
 DEPARTMENT OF PARKS

**SITE PLAN**

DATE: March 2018 SHEET 3 OF 10



NOTE:  
 BASEMAP TAKEN FROM QUEEN ANNE'S  
 COUNTY GIS

**Bayland**  
 Consultants & Designers, Inc.  
 "Integrating Engineering and Environment"  
 7455 New Ridge Road, Suite T Phone: (410) 694-9401  
 Hanover, Maryland 21076 Fax: (410) 694-9405  
 www.baylandinc.com

Z:\B\_27701\_KENT\_NARROWS\_DREDGING\CAD FILES\SHEET FILES\B\_27701\_JPA03.DWG

9 -3.8 -3.6 -3.3 -3.4 -3.9 -6.2 -6.4 -6.1 -5.7

-3.9 -3.7 -3.5 -3.2 -3.3 -5.3 -6.4 -6.3 -5.9 -5.7

-3.9 -3.9 -3.5 -3.2 -3.1 -3.2 -6.2 -6.5 -6.1 -5.8

-4.0 -4.0 -3.9 -3.3 -2.9 -3.1 -4.1 -6.3 -6.4 -5.9 -5.8

-4.1 -4.1 -3.6 -2.9 -2.9 -3.0 -6.1 -6.5 -6.2 -6.0 -5.8

-3.8 -3.9 -3.2 -2.7 -3.0 -5.2 -6.6 -6.6 -6.3 -6.1

-3.5 -3.6 -3.3 -2.9 -3.1 -3.3 -6.3 -6.8 -6.7 -6.4 -6.1

-3.4 -3.3 -3.1 -2.9 -3.4 -5.5 -6.8 -6.8 -6.5 -6.1

-3.5 -3.4 -3.3 -3.2 -3.4 -3.6 -6.5 -6.9 -6.7 -6.2

-3.5 -3.3 -3.3 -3.7 -5.8 -6.8 -7.0 -6.4 -5.9

-3.6 -3.5 -3.2 -3.7 -5.0 -6.6 -7.0 -6.7 -6.1

-3.5 -3.4 -3.6 -4.2 -6.2 -7.0 -7.0 -6.3 -5.9

-3.6 -3.5 -3.5 -4.1 -5.4 -6.8 -7.3 -6.9 -6.2 -5.4

-3.6 -3.5 -4.0 -4.8 -6.7 -7.3 -7.3 -6.6 -5.7 -5.3

-3.7 -4.0 -4.7 -5.7 -6.9 -7.3 -6.9 -6.2 -5.3

-3.9 -4.0 -4.6 -5.1 -6.4 -6.9 -7.1 -6.6 -5.7 -5.2

-4.2 -4.6 -4.9 -5.8 -6.7 -7.1 -6.8 -6.3 -5.4

-4.2 -4.5 -4.8 -5.3 -6.2 -6.8 -7.0 -6.6 -5.8 -5.3

-4.4 -4.7 -5.1 -5.7 -6.5 -6.9 -6.8 -6.3 -5.5

-4.6 -4.9 -5.3 -6.1 -6.6 -6.8 -6.5 -5.8 -5.2 -4.8

-4.5 -4.7 -5.1 -5.6 -6.2 -6.6 -6.8 -6.2 -5.5 -5.0

-4.6 -4.8 -5.3 -5.9 -6.4 -6.7 -6.6 -5.9 -5.2 -4.8

-4.7 -5.0 -5.5 -6.4 -6.7 -6.7 -6.2 -5.4 -4.9

-4.8 -5.1 -5.7 -6.8 -6.8 -6.4 -5.8 -5.1 -4.6

-4.5 -4.8 -5.3 -6.5 -6.8 -6.7 -6.1 -5.4 -4.9

-4.3 -4.5 -4.9 -5.8 -6.7 -7.0 -6.6 -5.9 -5.1 -4.5

-4.3 -4.4 -4.6 -5.2 -6.3 -6.8 -6.8 -5.4 -5.4 -4.6

MATCHLINE REFER TO SHEET 3

-4.5 -4.5 -5.1 -5.9 -6.9 -7.0 -6.7 -5.7 -4.9 -4.2

-4.3 -4.5 -4.9 -5.7 -6.8 -7.0 -6.9 -6.1 -5.2 -4.7

-4.9 -5.7 -6.7 -7.2 -7.0 -6.5 -5.7 -5.7

MATCHLINE REFER TO SHEET 5

MAIN CHANNEL SEGMENT 'A'  
3,325' X 75'-110' TO -9.0' MLW.  
CHANNEL OUTLINE REPRESENTS  
BOTTOM WIDTH. FOR TOTAL IMPACT  
SEE TYPICAL CROSS SECTION &  
CHANNEL DATA TABLE.

-9.0

CHESTER RIVER  
EBB  
FLOOD

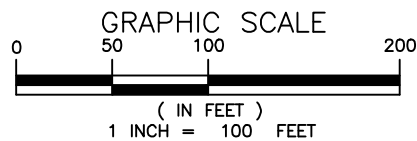


# KENT NARROWS, CHESTER RIVER PROPOSED MAINTENANCE DREDGING QUEEN ANNE'S COUNTY

APPL. BY: QUEEN ANNE'S COUNTY  
DEPARTMENT OF PARKS

SITE PLAN

DATE: March 2018 SHEET 4 OF 10



NOTE:  
BASEMAP TAKEN FROM QUEEN ANNE'S  
COUNTY GIS

**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"  
7455 New Ridge Road, Suite T Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\8\_27701\_KENT\_NARROWS\_DREDGING\CAD FILES\SHEET FILES\8\_27701\_JPA04.DWG



MATCHLINE REFER TO SHEET 6



-3.7 -3.5 -3.9 -3.9 -3.6 -7.1 -8.0 -7.9 -7.8

-3.9 -3.7 -3.8 -4.0 -3.9 -5.3 -7.7 -8.0 -7.9

-3.9 -4.0 -4.0 -4.1 -3.7 -6.9 -7.9 -8.0 -7.9

-4.1 -4.0 -4.1 -4.1 -4.1 -4.1 -7.6 -8.0 -8.0 -7.8

-4.0 -4.2 -4.3 -4.2 -4.0 -5.8 -7.8 -7.9 -7.8

-4.1 -4.3 -4.4 -4.2 -3.9 -7.5 -7.8 -7.9 -7.9

-4.1 -4.3 -4.3 -4.4 -4.1 -3.8 -7.6 -8.0 -8.3

-4.0 -4.2 -4.4 -4.5 -4.4 -4.0 -6.0 -7.9 -8.0 -8.3

-4.5 -4.5 -4.6 -4.4 -4.2 -7.5 -7.9 -7.9 -7.6

-4.5 -4.7 -4.7 -4.7 -4.5 -5.2 -7.7 -7.7 -7.6

-4.5 -4.7 -4.9 -4.8 -4.6 -4.5 -7.0 -7.7 -7.5 -7.6

-4.5 -4.7 -4.8 -4.8 -4.5 -4.7 -7.4 -7.6 -7.5 -7.5

EX. RED CHANNEL MARKER

-4.5 -4.6 -4.8 -4.8 -4.5 -6.1 -7.6 -7.6 -7.5

-4.3 -4.3 -4.7 -4.8 -4.8 -4.7 -7.2 -7.6 -7.6 -7.4

-4.1 -4.1 -4.3 -4.7 -4.8 -4.7 -5.7 -7.5 -7.6 -7.4

-4.0 -4.3 -4.7 -4.8 -4.7 -6.7 -7.5 -7.5 -7.0

-4.1 -4.0 -4.4 -4.7 -7.8 -5.6 -7.3 -7.4 -7.1 -6.1

-4.3 -4.1 -4.0 -4.4 -4.7 -4.9 -6.4 -7.5 -7.1 -6.5

-4.4 -4.3 -4.0 -3.9 -4.5 -4.7 -5.3 -6.7 -7.2 -6.3 -5.8

-4.3 -4.1 -3.9 -3.8 -4.5 -4.7 -6.2 -6.5 -6.4 -5.6 -5.4

-4.2 -4.0 -3.8 -3.7 -4.4 -5.0 -6.9 -6.9 -5.8 -5.7 -5.6

-4.1 -4.0 -3.8 -3.9 -4.2 -5.7 -7.1 -6.4 -6.0 -6.0

-4.0 -4.0 -3.9 -3.8 -4.1 -4.3 -6.5 -6.8 -6.4 -6.2 -6.2

-4.0 -4.1 -3.8 -3.7 -3.8 -4.4 -6.6 -6.5 -6.4 -6.0 -5.6

-3.8 -4.0 -3.9 -3.6 -3.5 -3.6 -5.8 -6.5 -6.4 -5.7 -5.8

-3.9 -3.8 -3.6 -3.3 -3.4 -3.9 -6.2 -6.4 -6.1 -5.7

-3.9 -3.7 -3.5 -3.2 -3.3 -5.3 -6.4 -6.3 -5.9 -5.7

-3.9 -3.9 -3.5 -3.2 -3.1 -3.2 -6.2 -6.5 -6.1 -5.8

-4.0 -4.0 -3.9 -3.3 -2.9 -3.1 -4.1 -6.3 -6.4 -5.9 -5.8

-4.1 -4.1 -3.6 -2.9 -2.9 -3.0 -6.1 -6.5 -6.2 -6.0 -5.8

MATCHLINE REFER TO SHEET 4

EX. GREEN CHANNEL MARKER

MAIN CHANNEL SEGMENT 'A'  
3,325' X 75'-110' TO -9.0' MLW.  
CHANNEL OUTLINE REPRESENTS  
BOTTOM WIDTH. FOR TOTAL IMPACT  
SEE TYPICAL CROSS SECTION &  
CHANNEL DATA TABLE.



-9.0

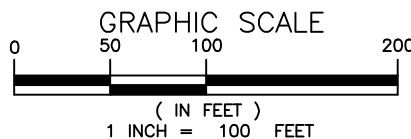
# KENT NARROWS, CHESTER RIVER PROPOSED MAINTENANCE DREDGING QUEEN ANNE'S COUNTY

APPL. BY: QUEEN ANNE'S COUNTY  
DEPARTMENT OF PARKS

SITE PLAN

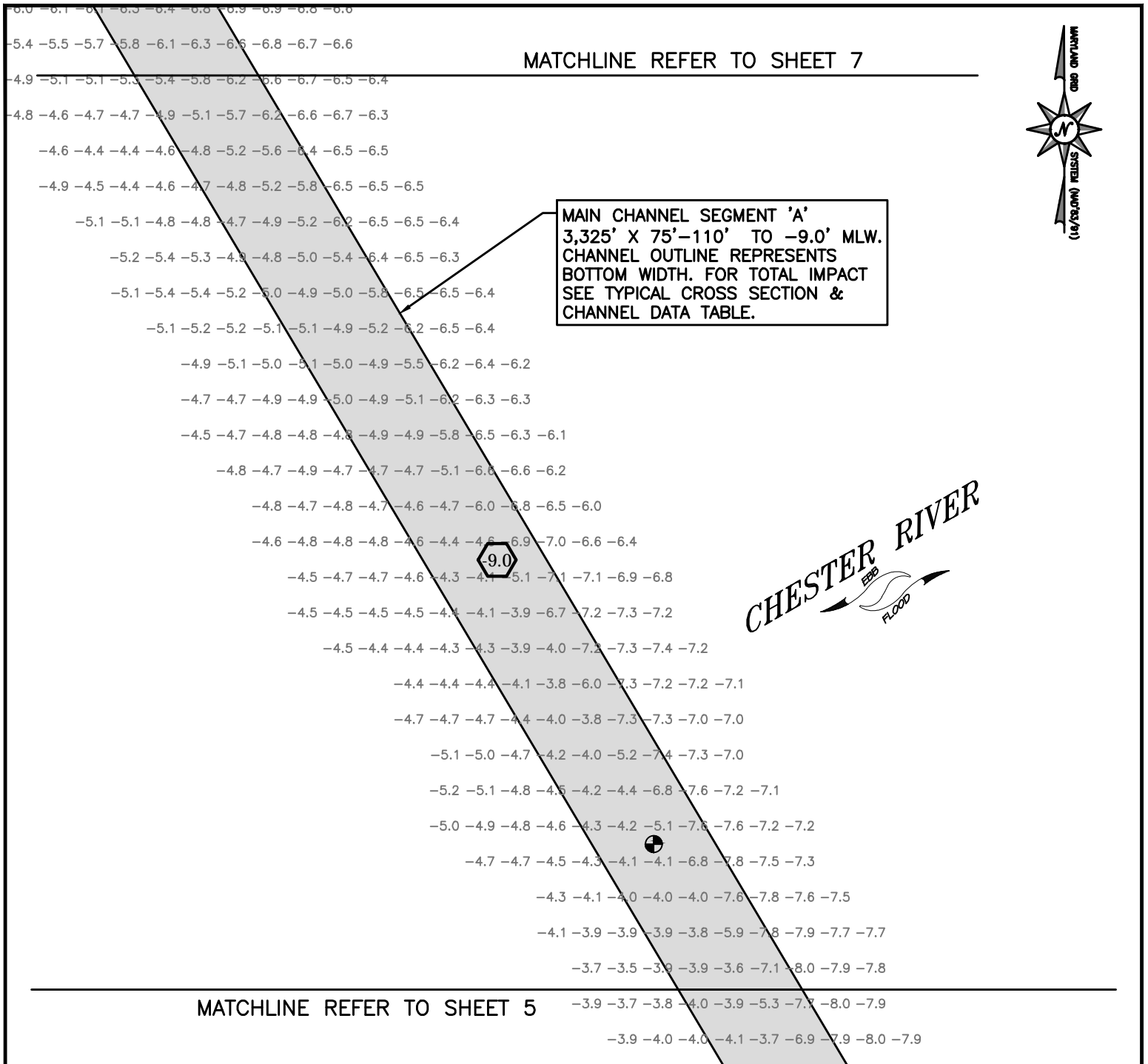
DATE: March 2018 SHEET 5 OF 10

NOTE:  
BASEMAP TAKEN FROM QUEEN ANNE'S  
COUNTY GIS



**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"  
7455 New Ridge Road, Suite T Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\8\_27701\_KENT\_NARROWS\_DREDGING\CAD FILES\SHEET FILES\8\_27701\_JPA05.DWG

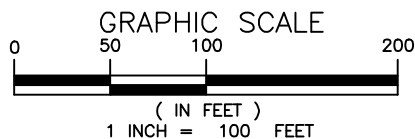


**KENT NARROWS, CHESTER RIVER  
 PROPOSED MAINTENANCE DREDGING  
 QUEEN ANNE'S COUNTY**

APPL. BY: QUEEN ANNE'S COUNTY  
 DEPARTMENT OF PARKS

**SITE PLAN**

DATE: March 2018 SHEET 6 OF 10



**NOTE:**  
 BASEMAP TAKEN FROM QUEEN ANNE'S  
 COUNTY GIS

**Chesapeake Bay Foundation**  
 Consultants & Designers, Inc.  
 "Integrating Engineering and Environment"

7455 New Ridge Road, Suite T      Phone: (410) 694-9401  
 Hanover, Maryland 21076      Fax: (410) 694-9405  
 www.baylandinc.com

Z:\8\_27701\_KENT\_NARROWS\_DREDGING\CAD FILES\SHEET FILES\8\_27701\_JPA06.DWG

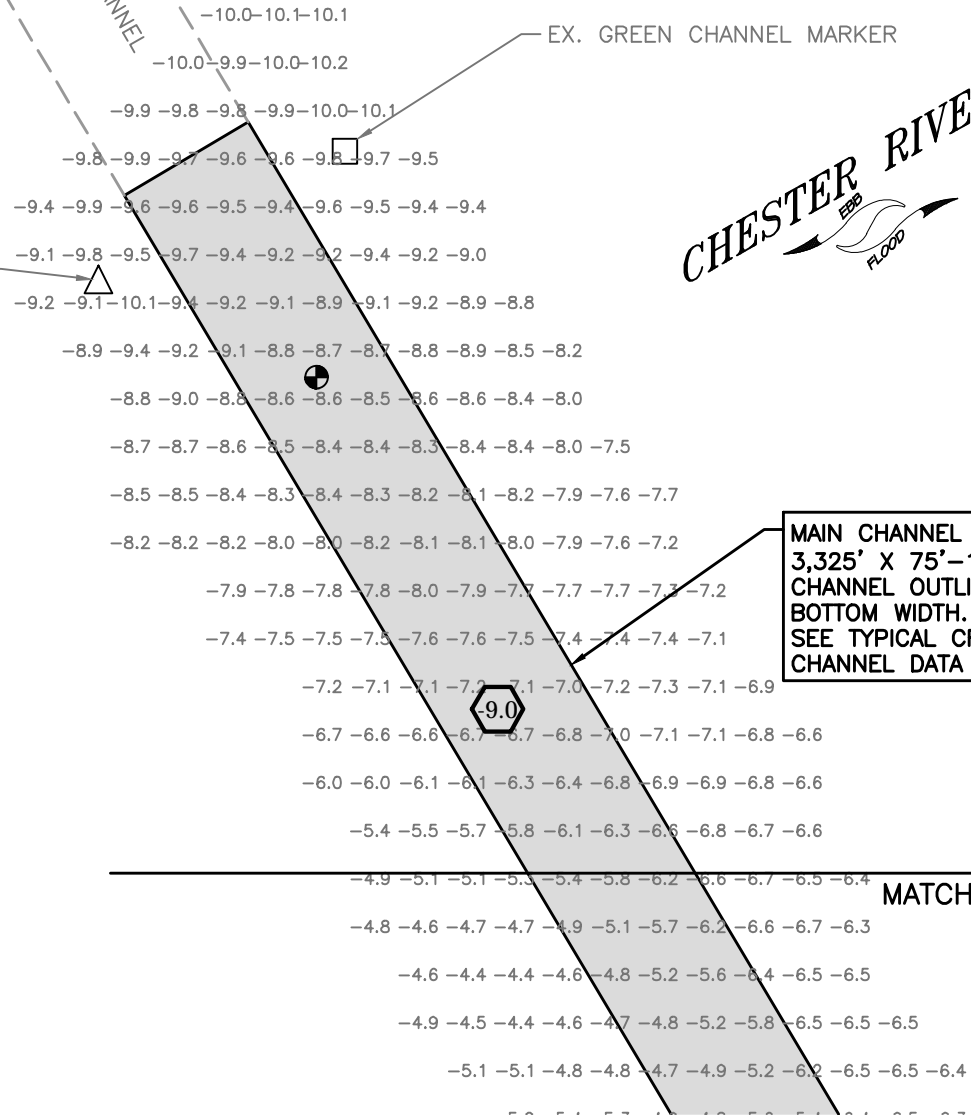


EX. FEDERAL CHANNEL

EX. GREEN CHANNEL MARKER

CHESTER RIVER  
EBB  
FLOOD

EX. RED CHANNEL MARKER



MAIN CHANNEL SEGMENT 'A'  
 3,325' X 75'-110' TO -9.0' MLW.  
 CHANNEL OUTLINE REPRESENTS  
 BOTTOM WIDTH. FOR TOTAL IMPACT  
 SEE TYPICAL CROSS SECTION &  
 CHANNEL DATA TABLE.

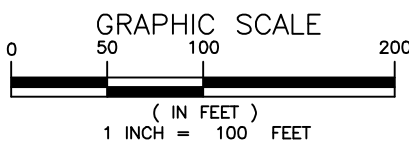
MATCHLINE REFER TO SHEET 6

**KENT NARROWS, CHESTER RIVER  
 PROPOSED MAINTENANCE DREDGING  
 QUEEN ANNE'S COUNTY**

APPL. BY: QUEEN ANNE'S COUNTY  
 DEPARTMENT OF PARKS

**SITE PLAN**

DATE: March 2018 SHEET 7 OF 10



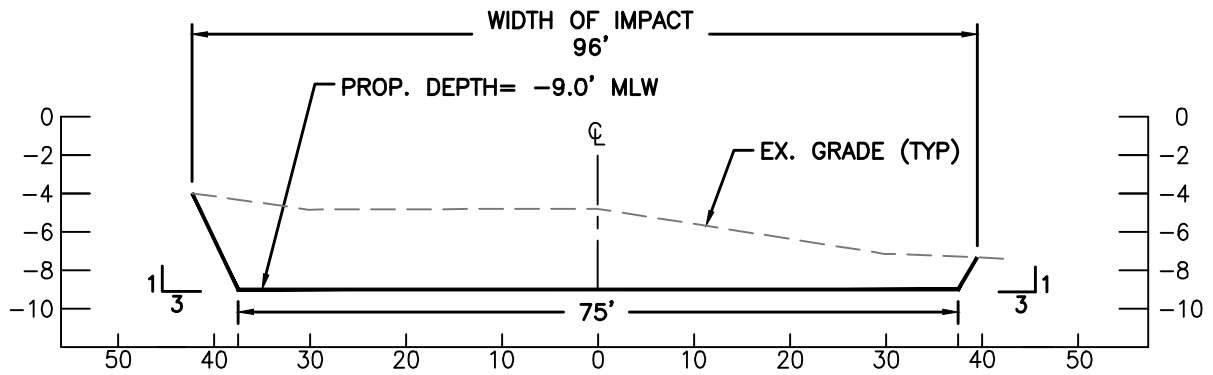
NOTE:  
 BASEMAP TAKEN FROM QUEEN ANNE'S  
 COUNTY GIS

**Bayland**  
 Consultants & Designers, Inc.  
 "Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401  
 Hanover, Maryland 21076 Fax: (410) 694-9405  
 www.baylandinc.com

Z:\8\_27701\_KENT\_NARROWS\_DREDGING\CAD FILES\SHEET FILES\8\_27701\_JPA07.DWG





## SECTION A-A

SCALE: NTS

CHANNEL DETAILS				
CHANNEL	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)	VOLUME (CY)
SEGMENT A	3,325	75-110	-9.0	31,783
TOTAL AREA OF IMPACT				345,475 SF = 7.9 AC

**NOTES:**

1. BASEMAP COMPILED FROM QUEEN ANNE'S COUNTY PLANIMETRICS.
2. TIDAL RANGE IS 1.2 FEET.
3. BATHYMETRY BASED ON DNR SURVEY DATED APRIL 5, 2017.
4. DEPTHS ARE IN FEET AND REFER TO MLW.
5. THE KENT NARROWS, CHESTER RIVER CHANNEL PROPOSED MAINTENANCE DREDGING WAS PREVIOUSLY APPROVED FOR DREDGING IN MARCH 2007.
6. THESE ARE PERMIT DRAWINGS ONLY. DESIGN DRAWINGS WILL BE PREPARED SEPARATELY.

### KENT NARROWS, CHESTER RIVER PROPOSED MAINTENANCE DREDGING QUEEN ANNE'S COUNTY

APPL. BY: QUEEN ANNE'S COUNTY  
DEPARTMENT OF PARKS

### CHANNEL DETAILS

DATE: March 2018 SHEET 8 OF 10

**Bayland**  
Consultants & Designers, Inc.  
*"Integrating Engineering and Environment"*

7455 New Ridge Road, Suite T Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\B\_27701\_KENT\_NARROWS\_DREDGING\CAD FILES\SHEET FILES\B\_27701\_JPA08.DWG

PR. TURBIDITY CURTAIN TO BE INSTALLED IN 400' INTERVALS IN CONJUNCTION WITH THE ACTIVE PLACEMENT AREA, PHASED ACCORDINGLY

EX. SEGMENTED STONE SILL (TYP)

PR. COIR LOG BARRIER (TYP)

EX. SILL VENT TOE (TYP)

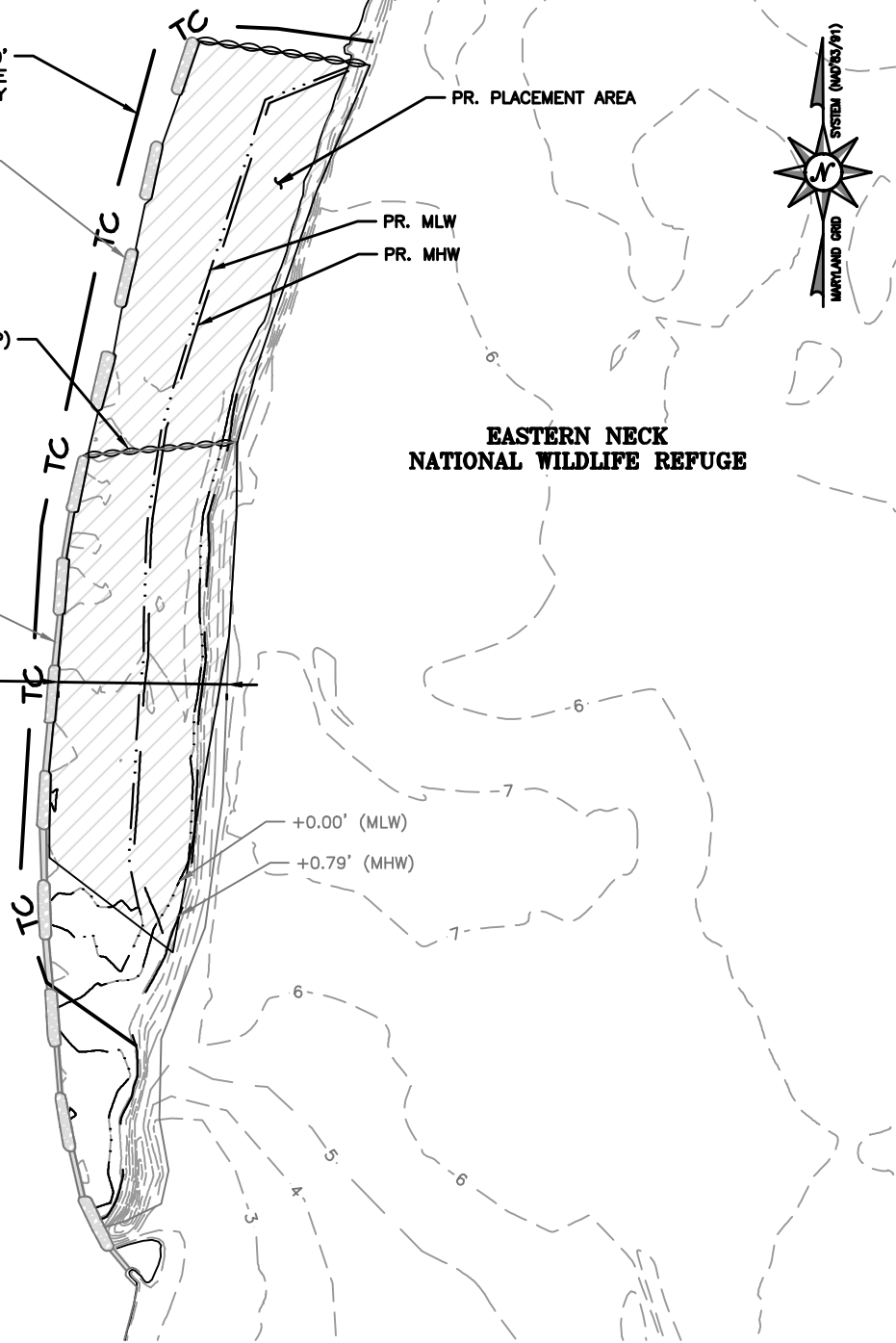
255' MAX ENCROACHMENT

PR. PLACEMENT AREA

PR. MLW

PR. MHW

**EASTERN NECK  
NATIONAL WILDLIFE REFUGE**



+0.00' (MLW)

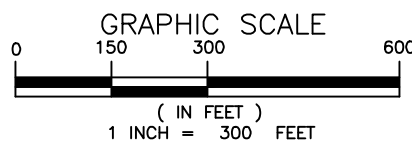
+0.79' (MHW)

# KENT NARROWS, CHESTER RIVER PROPOSED MAINTENANCE DREDGING QUEEN ANNE'S COUNTY

APPL. BY: QUEEN ANNE'S COUNTY  
DEPARTMENT OF PARKS

## DMP SITE PLAN

DATE: March 2018 SHEET 9 OF 10

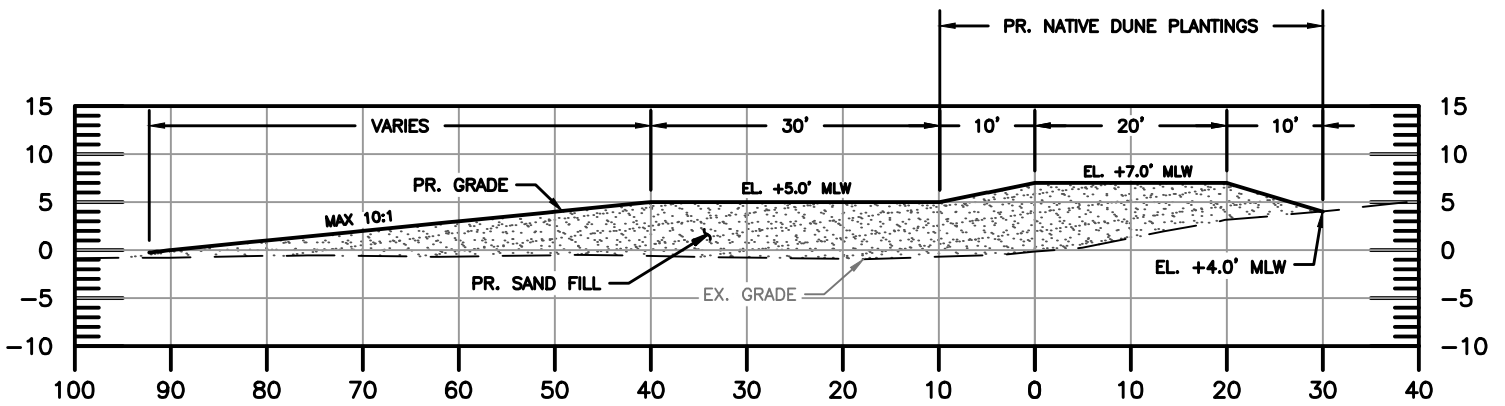


NOTE:  
BASEMAP TAKEN FROM KENT COUNTY GIS



7455 New Ridge Road, Suite T Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\8\_27701\_KENT\_NARROWS\_DREDGING\CAD FILES\SHEET FILES\8\_27701\_JPA09.DWG



**PROPOSED TYPICAL SECTION**

**KENT NARROWS, CHESTER RIVER  
PROPOSED MAINTENANCE DREDGING  
QUEEN ANNE'S COUNTY**

APPL. BY: QUEEN ANNE'S COUNTY  
DEPARTMENT OF PARKS

**DMP CROSS SECTIONS**

DATE: March 2018 SHEET 10 OF 10

**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\8\_27701\_KENT\_NARROWS\_DREDGING\CAD FILES\SHEET FILES\8\_27701\_JPA10.DWG